

32-3942: HBQ1 Recombinant Protein

Alternative Name : Hemoglobin Theta 1,Hemoglobin Theta-1 Chain,Hemoglobin Subunit Theta-1,Theta-1-globin.

Description

Source : Escherichia Coli. HBQ1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 165 amino acids (1-142) and having a molecular mass of 17.9kDa.HBQ1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. HBQ1 is a member of the Hemoglobin family. Hemoglobin is a 66.7 kDa protein attached to four iron-binding, methenelinked tetrapyrrole rings (heme). The globin part of Hemoglobin contains 2 alpha chains and 2 beta chains organized as couples creating a tetramer. Every one of the 4 globin chains covalently connects with a heme group. The bonds between alpha and beta chains are frailer than between parallel globin chains, thus creating a cleavage plane which is vital for oxygen binding and release. Relaxation of the alpha1-beta2 cleavage plane results in high affinity for oxygen.

Product Info

Amount :	20 µg
Purification :	Greater than 90% as determined by SDS-PAGE.
Content :	The HBQ1 solution contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSMALSAED RALVRALWKK LGSNMGVYTT EALERTFLAF PATKTYFSL DLSPGSSQVR AHGQKVADAL SLAVERLDDL PHALSALSHL HACQLRVDPA SFQLLGHCLL VTLARHYPGD FSPALQASLD KFLSHVISAL VSEYR